The Singapore Bioimaging Consortium (SBIC)
presents a seminar on

"Magnetic Resonance Imaging (MRI) in Humans at 7 Tesla: Demonstrated and Potential Capabilities"

Speaker: **Armin Nagel**
Professor for Metabolic and Functional MR imaging
University of Erlangen-Nürnberg (Germany)

Host : **Dr Philip Lee**
Date : **Friday, 30 November 2018**
Time : **11.00am – 12.00pm**
Venue : **SBIC Seminar Room**
11 Biopolis Way
Level 2, Helios Building, Singapore 138667
(Please enter via Level 1)

Abstract

With more than 70 installed MR systems worldwide operating at 7 Tesla, ultra-high-field (UHF) imaging has been established as a platform for clinically oriented research in recent years. Besides high resolution morphological MRI, MR spectroscopy and imaging of nuclei other than protons, such as sodium, potassium or oxygen largely benefit from the higher magnetic field strength. Recent technological advances such as new radiofrequency coil designs, efficient image acquisition techniques and sophisticated image reconstruction and post-processing techniques further increase the capabilities of UHF MRI. The main focus of this presentation will be UHF MRI and imaging of ion concentrations.

About the Speaker

Armin Nagel is a Professor for Functional and Metabolic MR imaging at the University of Erlangen-Nürnberg (Germany). His work focuses on magnetic resonance imaging of non-proton nuclei such sodium, potassium, chloride and oxygen. With Prof Nagel's research group, he is developing new image acquisition and reconstruction techniques for ultra-high field magnetic resonance imaging. He enjoys working in an interdisciplinary environment with physicists and physicians that fosters fast translation of new technical developments into clinical research applications.

--- Admission is free and all are welcome ---